EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 58142060
PUBLICATION DATE : 23-08-83

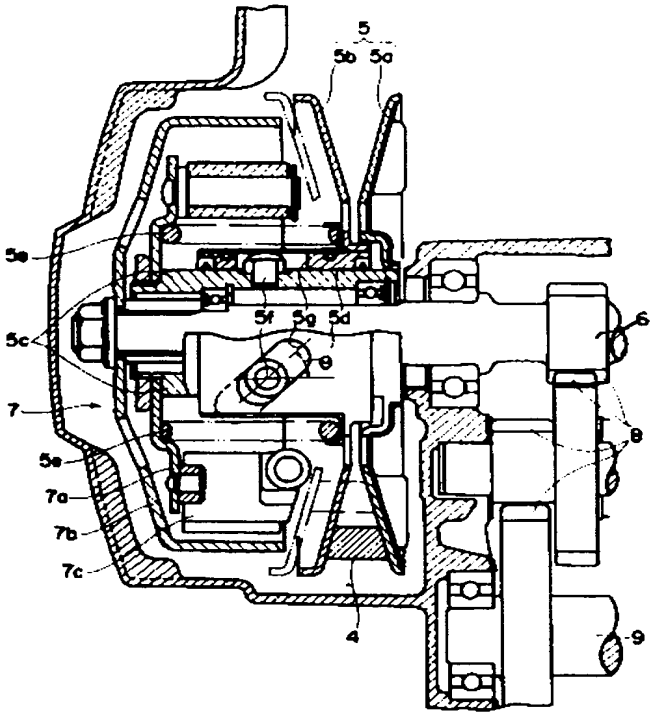
APPLICATION DATE : 15-02-82
APPLICATION NUMBER : 57022454

APPLICANT : HONDA MOTOR CO LTD;

INVENTOR : OTOSHI YASUSHI;

INT.CL. : F16H 9/18

TITLE : TORQUE DETECTING CAM MECHANISM OF AUTOMATIC BELT SPEED CHANGE DEVICE



ABSTRACT : PURPOSE: To obtain the belt lateral pressure of a driven pulley matching with required speed change characteristic by changing the operation angle of a cam groove of a driven cam in relation to a roller pin to the extent from two steps up to the stepless condition.

CONSTITUTION: If an operation angle of a cam groove 5g in relation to a roller pin 5f is set to θ(=45°) in a low-speed and high torque driving area and θ_1(<θ) on the way to high-speed and low torque driving area, the belt lateral pressure Q_2 which works on a driven pulley 5 in low-speed and high torque driving area at this time is made larger than belt lateral pressure Q'_2 in the high- speed and low torque driving area. Further, since the driving force of the driven pulley 5 becomes smaller than that of a linear cam groove when the engine speed reaches the definite number of revolution, automatic speed change of the pulley from the low-speed and high torque area to the high-speed and low torque area becomes easy and load of the engine is decreased, therefore, the car speed is increased in spite of a decrease in the number of engine revolution.